

(FILE 'USPAT' ENTERED AT 20:23:48 ON 30 SEP 1999)

L1 225 S 205/131-132/CCLST
L2 211 S FLEXIBLE(3A)ANODE#
L3 0 S L1 AND L2
L4 1419 S ANODE#(2A)WIRE#
L5 5 S L1 AND L4

=> d 1-5

1. 5,958,604, Sep. 28, 1999, Electrolytic process for cleaning and
coating electrically conducting surfaces and product thereof; Vitalij M.
Riabkov, et al., 428/612; 205/87, 95, 102, 131, 148, 151, 219;
428/687, 935 [IMAGE AVAILABLE]

2. 5,700,366, Dec. 23, 1997, Electrolytic process for cleaning and
coating electrically conducting surfaces; Valerij Leontievich Steblianko,
et al., 205/87, 102, 131, 148, 219 [IMAGE AVAILABLE]

3. 4,690,747, Sep. 1, 1987, Selective plating apparatus; Mark L. Smith,
et al., 204/206, 224R, 225; 205/96, 129, 131 [IMAGE AVAILABLE]

4. 4,687,562, Aug. 18, 1987, Anode assembly for selectively plating
electrical terminals; Mark L. Smith, et al., 204/206, 224R, 225, 280;
205/131 [IMAGE AVAILABLE]

5. 3,673,073, Jun. 27, 1972, APPARATUS FOR ELECTROPLATING THE INTERIOR
OF AN ELONGATED PIPE; Ray Tobey, et al., 204/226, 224R, 275; 205/132
[IMAGE AVAILABLE]

lengthwise to outside

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L3 0 S L1 AND L2
L4 1419 S ANODE# (2A) WIRE#
L5 5 S L1 AND L4
L6 2203 S ANODE# (4A) WIRE#
L7 5 S L1 AND L6
L8 949 S (STAINLESS STEEL) (3A) ANODE#
L9 4 S L1 AND L8

=> d 1-4

✓ 1. 4,788,003, Nov. 29, 1988, Partial oxidation of ash-containing liquid hydrocarbonaceous and solid carbonaceous; Mitri S. Najjar, et al., 252/373; 48/197R, DIG.2; 205/131, 149, 151, 231, 232 [IMAGE AVAILABLE]

✓ 2. 4,738,995, Apr. 19, 1988, Preparation of epoxy binders for coatings; Petrus G. Kooijmans, et al., 523/404; 205/131, 317 [IMAGE AVAILABLE] *process for the curing of epoxy resins. The process involves the addition of a curing agent to the epoxy resin and the subsequent curing of the mixture.*

✗ 3. 4,687,562, Aug. 18, 1987, Anode assembly for selectively plating electrical terminals; Mark L. Smith, et al., 204/206, 224R, 225, 280; 205/131 [IMAGE AVAILABLE]

✓ 4. 4,017,368, Apr. 12, 1977, Process for electroplating zirconium alloys; Daniel E. Wax, et al., 205/212, 131, 148, 220, 271, 284, 292, 296; 216/37, 108; 252/79.3; 376/417 [IMAGE AVAILABLE] *process for plating zirconium or zirconium alloys with a metal*

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L7 5 S L1 AND L6
L8 949 S (STAINLESS STEEL) (3A) ANODE#
L9 4 S L1 AND L8
L10 450 S 204/272/CCLS
L11 5 S L10 AND L4

=> d 1-5

1. 4,680,100, Jul. 14, 1987, Electrochemical cells and electrodes therefor; Louis G. Morin, 204/272, 242, 254, 268, 269, 275, 284, 286, 290R, 292, 294 [IMAGE AVAILABLE] *the, wire and 100 is wrapped tightly around a furnace, but just the wire end 100 is wrapped tightly*
2. 4,201,650, May 6, 1980, Apparatus for continuous electrolytic descaling of steel wire with mill scales; Hiroo Nagano, et al., 204/209, 206, 272 [IMAGE AVAILABLE]

3. 4,039,422, Aug. 2, 1977, Metal recovery unit; Elliot L. Packer, 204/272, 269, 275, 284 [IMAGE AVAILABLE] *wire mesh around*

4. 4,028,212, Jun. 7, 1977, Silver recovery apparatus; Woodrow L. Bowen, et al., 204/272, 234, 273, 275 [IMAGE AVAILABLE]

5. 3,954,592, May 4, 1976, Electrolysis apparatus; Stephen Horvath, 204/229.7, 230.5, 272, DIG.9; 205/341 [IMAGE AVAILABLE]

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L3	0	S	L1 AND L2
L4	1419	S	ANODE# (2A) WIRE#
L5	5	S	L1 AND L4
L6	2203	S	ANODE# (4A) WIRE#
L7	5	S	L1 AND L6
L8	949	S	(STAINLESS STEEL) (3A) ANODE#
L9	4	S	L1 AND L8
L10	450	S	204/272/CCLS
L11	5	S	L10 AND L4
L12	13	S	L10 AND L6
L13	8	S	L12 NOT L11

=> d 1-8

1. 5,431,797, Jul. 11, 1995, Electrolytic-catalytic-electrochemical series potential cell for improving combustion of oxygenated hydrocarbon fuels; Draper M. Harvey, 204/272, 290R, 292 [IMAGE AVAILABLE]

2. 5,364,512, Nov. 15, 1994, Electrochemical ionization apparatus system for purifying water; Floyd Earl, 210/138; 204/229.6, 272, 275, 292, 293; 210/169, 192 [IMAGE AVAILABLE]

3. 5,145,564, Sep. 8, 1992, Method of and apparatus for producing electrically-conductive probe tips; Heiko Lemke, et al., 205/664; 204/224M, 225, 272 [IMAGE AVAILABLE]
DESO II probe with an anion - cationic probe

4. 5,085,753, Feb. 4, 1992, Water purifier; Mark Sherman, 204/267, 271, 272, 286, 292, 293 [IMAGE AVAILABLE]

5. 5,059,296, Oct. 22, 1991, Portable self-contained solar powered water purifier; Mark Sherman, 204/229.8, 267, 271, 272, 273, 277, 278, 279, 293, 660, 668, DIG.5; 210/85, 192 [IMAGE AVAILABLE]

6. 4,675,085, Jun. 23, 1987, Method and apparatus for recovery of metal from solution; Adalberto Vasquez, 205/337; 204/228.2, 229.2, 272, 273, 275, 400, 435; 205/566 [IMAGE AVAILABLE]

7. 4,525,272, Jun. 25, 1985, Electrochemical ionization system for purifying water; James H. Henson, 210/149; 204/228.6, 272; 210/192, 243 [IMAGE AVAILABLE]

8. 4,479,857, Oct. 30, 1984, Method and apparatus for radon control; Hugh M. Barton, Jr., 204/550, 272, 275, 284, 515; 423/2 [IMAGE AVAILABLE]

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L7 5 S L1 AND L6
L8 949 S (STAINLESS STEEL) (3A) ANODE#
L9 4 S L1 AND L8
L10 450 S 204/272/CCLS
L11 5 S L10 AND L4
L12 13 S L10 AND L6
L13 8 S L12 NOT L11
L14 105 S 205/286/CCLS
L15 10 S 205/288/CCLS
L16 939 S 204/286/CCLS
L17 316 S 204/288/CCLS
L18 27 S L16 AND L4
L19 0 S L17 AND L7
L20 7 S L17 AND L4
L21 33 S L18 OR L20

=> d 1-33

✓1. 5,958,206, Sep. 28, 1999, Process for producing a corrosion and wear-resistant oxide layer with locally reduced layer thickness on the metal surface of a workpiece; Horst Rothbauer, et al., 205/96; 204/224R, 279, **286**, DIG.7; 205/136, 324 [IMAGE AVAILABLE]

✓2. 5,372,687, Dec. 13, 1994, Cathodic protection disk anode; Gerald R. Pohto, et al., 204/196.31, 196.36, 280, **286**, 290R [IMAGE AVAILABLE]

✓3. 5,277,777, Jan. 11, 1994, Insoluble anode for electrolyses in aqueous solutions; Marco Olper, et al., **204/286**, 290F, 290R, 297R, 297W [IMAGE AVAILABLE]

✓4. 4,946,570, Aug. 7, 1990, Ceramic coated strip anode for cathodic protection; Ashok Kumar, 204/196.3, 196.31, 279, 280, **286**, 290F, 297R [IMAGE AVAILABLE] *ABOVE 4,187,160 ... undividing wire channel*

✓5. 4,936,969, Jun. 26, 1990, Water tank cathodic protection system; Robert A. Garlinger, 204/196.33, **286**, 290F, 297R [IMAGE AVAILABLE] *ABOVE 4,187,160*

✓6. 4,915,808, Apr. 10, 1990, Anode and capsule assembly for automotive cathodic protection; David F. McCready, et al., 204/196.38, 280, **286**, 291, 294; 439/589, 604, 606, 658, 751 [IMAGE AVAILABLE]

7. 4,830,724, May 16, 1989, Stamped metal anode cap assembly; Timothy H. Houle, 204/196.18, **286**, 392/457 [IMAGE AVAILABLE] *ABOVE*

8. 4,798,657, Jan. 17, 1989, Cathodic protection system; Richard J. Kochilla, et al., 205/738; 204/196.29, 196.34, 196.35, **286**, 297R; 205/740 [IMAGE AVAILABLE] *ABOVE 4,187,160 ... undividing wire channel*

9. 4,786,390, Nov. 22, 1988, Anode configuration for nickel-phosphorus electroplating; John Lichtenberger, et al., 204/242, 286, 288, 289, 290F, 290R, 292 [IMAGE AVAILABLE] *Wire and strip anode configuration with the cathode*
10. 4,762,603, Aug. 9, 1988, Process for forming electrodes; Louis G. Morin, 204/279; 174/74R; 204/280, 284, 286, 290R; 439/874 [IMAGE AVAILABLE]

11. 4,690,748, Sep. 1, 1987, Plastic electrochemical cell terminal unit; Richard N. Beaver, et al., 204/279, 280, 284, 286; 429/211, 234 [IMAGE AVAILABLE]

12. 4,680,100, Jul. 14, 1987, Electrochemical cells and electrodes therefor; Louis G. Morin, 204/272, 242, 254, 268, 269, 275, 284, 286, 290R, 292, 294 [IMAGE AVAILABLE]

13. 4,668,371, May 26, 1987, Structural frame for an electrochemical cell; John R. Pimlott, et al., 204/253, 267, 279, 286, 290F, 290R [IMAGE AVAILABLE]

14. 4,666,580, May 19, 1987, Structural frame for an electrochemical cell; Richard N. Beaver, et al., 204/254, 268, 279, 286 [IMAGE AVAILABLE]

15. 4,561,959, Dec. 31, 1985, Flat-plate electrolytic cell; John R. Pimlott, 204/253, 279, 282, 283, 288 [IMAGE AVAILABLE]

16. 4,400,259, Aug. 23, 1983, Deep anode assembly; William R. Schutt, 204/196.33, 196.36, 196.38, 286, 297R [IMAGE AVAILABLE]

17. 4,374,014, Feb. 15, 1983, High pressure electrolytic oxygen generator; Robert E. Smith, et al., 204/260, 266, 283, 288, 289 [IMAGE AVAILABLE]

18. 4,329,218, May 11, 1982, Vertical cathode pocket assembly for membrane-type electrolytic cell; Marius W. Sorenson, et al., 204/283, 266, 286 [IMAGE AVAILABLE]

19. 4,224,126, Sep. 23, 1980, Anode assembly for hot water heaters; Arthur W. Bidwell, 204/196.19, 286 [IMAGE AVAILABLE]

20. 4,170,532, Oct. 9, 1979, Deep well platinized anode carrier for cathodic protection system; Joe F. Tatum, 204/196.3, 196.36, 196.38, 284, 286, 290F [IMAGE AVAILABLE]

21. 4,154,665, May 15, 1979, Diaphragm cell; Thomas W. Boulton, 204/253, 256, 284, 286, 290F [IMAGE AVAILABLE]

22. 4,141,814, Feb. 27, 1979, Diaphragm cell; Thomas W. Boulton, 204/252, 284, 288, 290F, 296 [IMAGE AVAILABLE]

23. 4,126,534, Nov. 21, 1978, Monopolar electrolytic cell electrodes; Thomas W. Boulton, 204/266, 288, 290F [IMAGE AVAILABLE]

24. 4,124,479, Nov. 7, 1978, Bipolar unit; Thomas W. Boulton, 204/256, 288, 290F, 296 [IMAGE AVAILABLE]

25. 4,093,529, Jun. 6, 1978, Resistor anode for metal tank; Carl G. Strobach, 204/196.11, 196.18, 286; 267/158, 161 [IMAGE AVAILABLE]

26. 4,064,034, Dec. 20, 1977, Anode structure for wire and strip

line electroplating; Frederick Walter Eppensteiner, et al., 204/286, 206, 297R [IMAGE AVAILABLE]

27. 4,022,679, May 10, 1977, Coated titanium anode for amalgam heavy duty cells; Konrad Koziol, et al., 204/286, 219, 290F [IMAGE AVAILABLE]

28. 3,994,794, Nov. 30, 1976, Sacrificial anode; Alvin W. Bohne, 204/196.16, 196.23, 280, 286 [IMAGE AVAILABLE]

29. 3,947,343, Mar. 30, 1976, Electrotinning wire; James Delves-Broughton, et al., 204/207, 206, 211, 286; 205/140, 215 [IMAGE AVAILABLE]

30. 3,855,102, Dec. 17, 1974, WATER TANK ANODE SUSPENSION; James D. Palmer, 204/196.34, 286, 297R [IMAGE AVAILABLE]

31. 3,844,921, Oct. 29, 1974, ANODE CONTAINING PIN-TYPE INSERTS; Risque L. Benedict, 204/196.38, 280, 288, 289, 290F, 292 [IMAGE AVAILABLE]

32. 3,803,012, Apr. 9, 1974, CATHODIC PROTECTION ANODE CLAMP ASSEMBLY; George W. Kurr, 204/196.16; 24/569; 204/196.17, 286, 297R [IMAGE AVAILABLE]

33. 3,616,418, Oct. 26, 1971, ANODE ASSEMBLY FOR CATHODIC PROTECTION SYSTEMS; Edward P. Anderson, et al., 204/196.35, 196.38, 286, 290F, 297R; 405/211.1 [IMAGE AVAILABLE]

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L10	450	S	204/272/CCLS
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L13	8	S	L12 NOT L11
L14	105	S	205/286/CCLS
L15	10	S	205/288/CCLS
L16	939	S	204/286/CCLS
L17	316	S	204/288/CCLS
L18	27	S	L16 AND L4
L19	0	S	L17 AND L7
L20	7	S	L17 AND L4
L21	33	S	L18 OR L20
L22	94310	S	HELIX OR HELICAL
L23	5	S	L22 AND L1
L24	83	S	HELICAL SPACER#
L25	25095	S	205/CLAS
L26	0	S	L24 AND L25
L27	38297	S	204/CLAS
L28	0	S	L27 AND L24
L29	239	S	(HELICAL OR HELIX) (3A) SPACER#
L30	2	S	L29 AND L25
L31	4	S	L29 AND L27
L32	4	S	L30 OR L31

=> d 1-4

X1. 5,589,085, Dec. 31, 1996, Process of manufacturing a detecting unit for an electrolytic cell with thin film electrodes; Jacob Mettes, 216/65; 73/335.02; 204/430; 205/788; 216/66, 75; 427/125 [IMAGE AVAILABLE]

02. 4,898,926, Feb. 6, 1990, Bioelastomer containing tetra/penta-peptide units; Dan W. Urry, 528/328; 204/403; 528/184, 327 [IMAGE AVAILABLE]

- 3. 4,872,959, Oct. 10, 1989, Electrolytic treatment of liquids; Robert J. Herbst, et al., 205/566, 204/229.6, 230.5, 272, 205/688, 695, 756, 757; 422/186.04, 186.18 [IMAGE AVAILABLE] *BSN 1000 It is in the down 11. BSN 12 osium 79 if the improved system for electrolytic treatment of liquids is used in Fig. 3, the anode is platinum and the cathode is BSN 1000. BSN 12 is shown in Fig. 3.*

- 4. 4,293,400, Oct. 6, 1981, Electrolytic treatment of water; James J. Liggett, 204/272, 667 [IMAGE AVAILABLE]

as when insulation occurs

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L15 10 S 205/288/CCLS
L16 939 S 204/286/CCLS
L17 316 S 204/288/CCLS
L18 27 S L16 AND L4
L19 0 S L17 AND L7
L20 7 S L17 AND L4
L21 33 S L18 OR L20
L22 94310 S HELIX OR HELICAL
L23 5 S L22 AND L1

=> d 1-5

- ✓ 1. 5,544,209, Aug. 6, 1996, Process for repairing and protecting from cracking the inner wall of a tube for penetrating the bottom head of a pressurized-water nuclear reactor vessel; Bernard Michaut, et al., 376/260; 205/115, 131; 376/254, 305 [IMAGE AVAILABLE]
- ✓ 2. 4,345,977, Aug. 24, 1982, Method and apparatus for depositing metal in a large diameter cylindrical bore which passes through a large part; Jacques Blanc, et al., 205/131; 204/272, 273 [IMAGE AVAILABLE]
- ✓ 3. 4,253,917, Mar. 3, 1981, Method for the production of copper-boron carbide composite; Chih-Chang Wang, 205/131, 183 [IMAGE AVAILABLE]
- ✓ 4. 4,149,132, Apr. 10, 1979, Method of manufacturing an electromagnet; Hermann Richter, et al., 335/262; 205/131, 197, 217, 224 [IMAGE AVAILABLE]
- ✓ 5. 4,105,512, Aug. 8, 1978, Method for the manufacture of a superconductive Nb.₃Sn layer on a niobium surface for high frequency applications; Hans Martens, deceased, et al., 148/98; 29/599; 205/106, 131, 170, 171, 199, 220, 228, 324, 333; 427/62, 250; 505/919 [IMAGE AVAILABLE]